

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637038

Luminaire Tested: GWS-SA4C-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14719.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

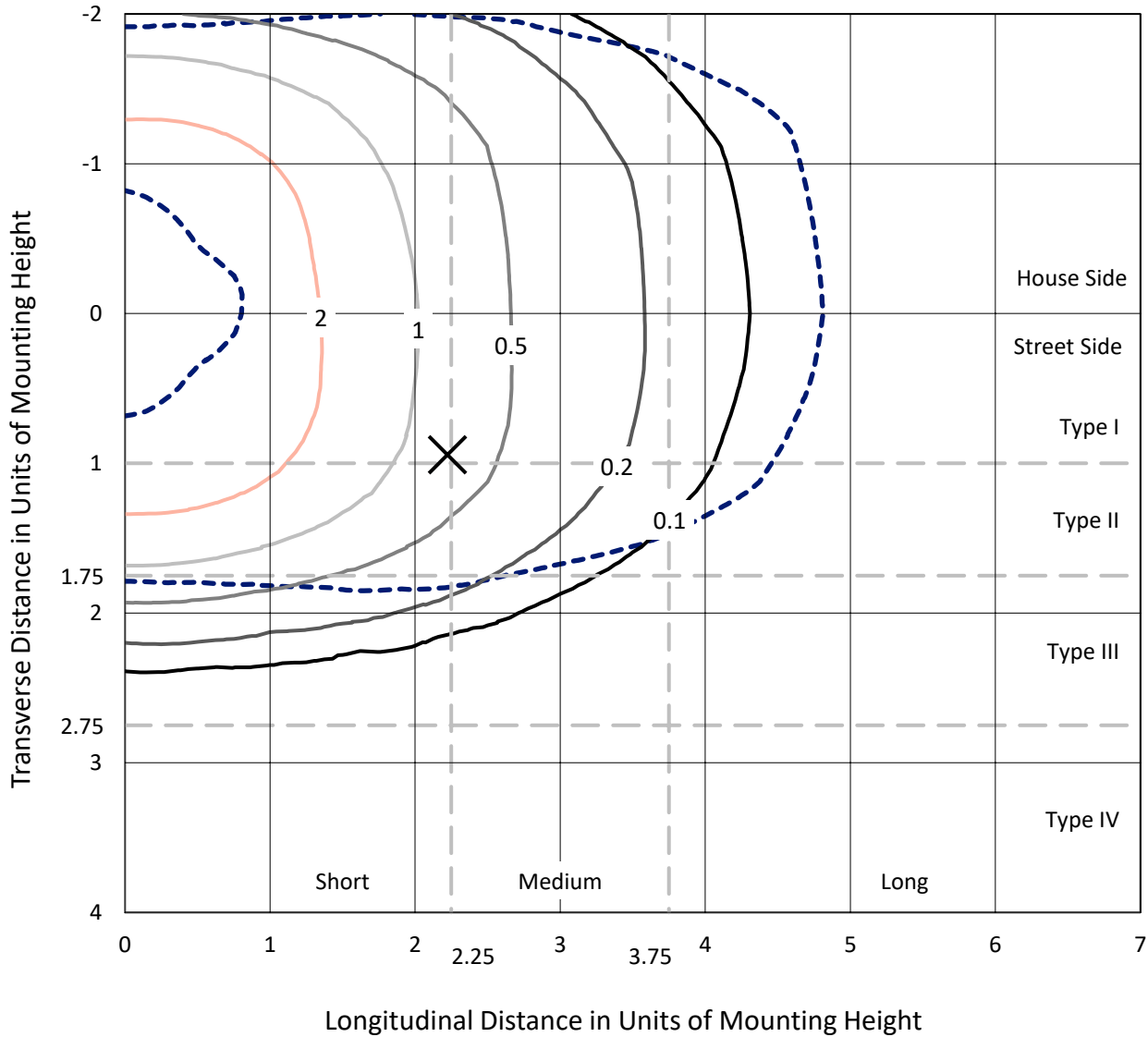
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

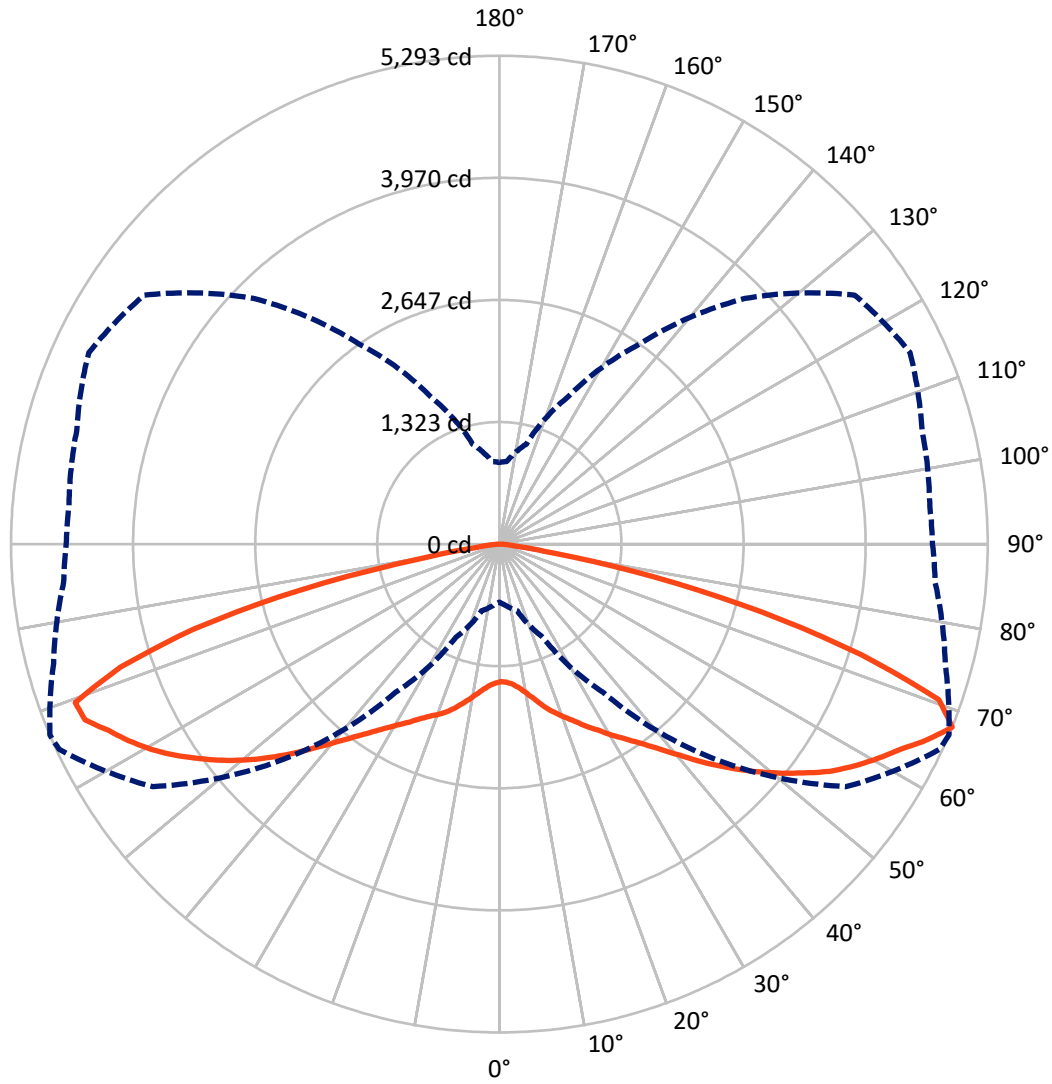
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7278.4	0.0	7278.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7440.9	0.0	7440.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	14719.3	0.0	14719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	1.0
10°-20°	494.0	3.4
20°-30°	969.3	6.6
30°-40°	1651.3	11.2
40°-50°	2651.6	18.0
50°-60°	3603.0	24.5
60°-70°	3446.5	23.4
70°-80°	1638.6	11.1
80°-90°	118.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14719.3	100.0
0°-180°	14719.3	100.0

Coefficient of Utilization



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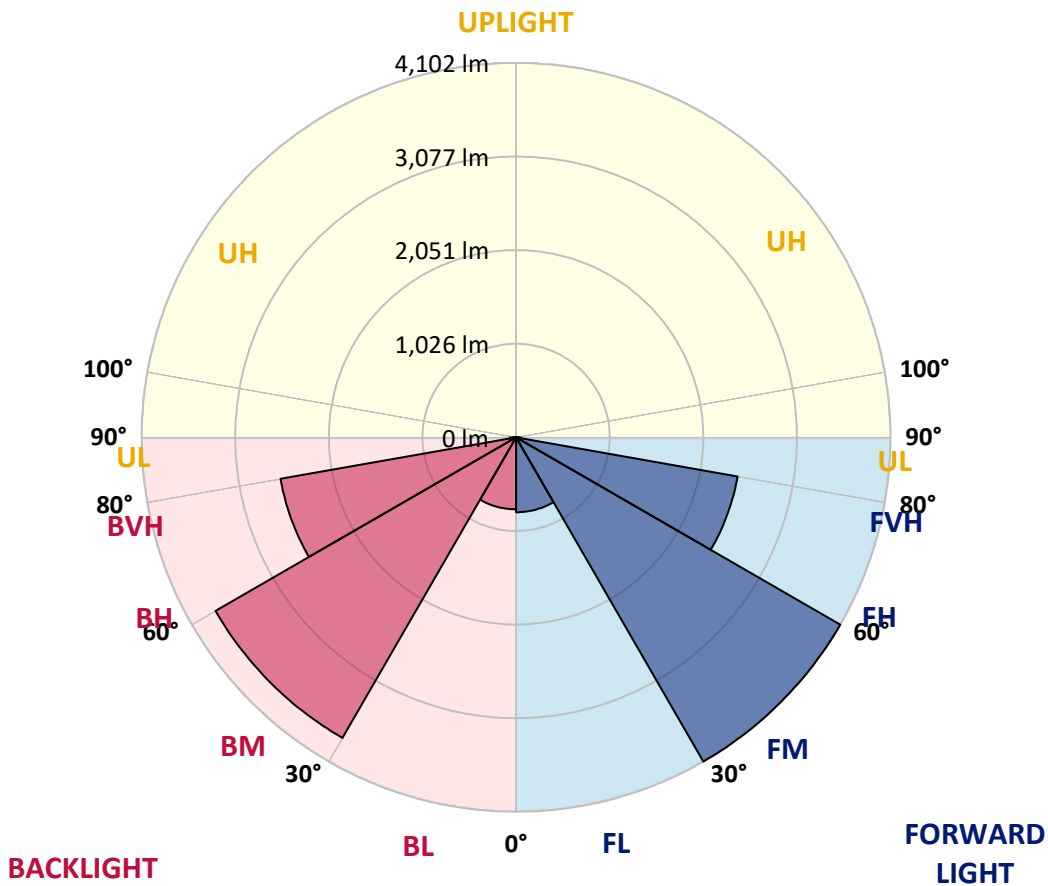
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.7	5.6			
FM (30°-60°)	4102.4	27.9			
FH (60°-80°)	2464.4	16.7			G2/5000
FVH (80°-90°)	53.4	0.4			G1/100
BL (0°-30°)	788.8	5.4	B2/1000		
BM (30°-60°)	3803.5	25.8	B3/5000		
BH (60°-80°)	2620.7	17.8	B4/5000		G4/5000
BVH (80°-90°)	65.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4
2.5°	1459.7	1461.7	1464.8	1470.9	1477.1	1486.3	1495.5	1494.5	1498.6	1501.7	1504.8
5°	1451.5	1453.5	1458.6	1466.8	1476.1	1491.4	1510.9	1519.1	1525.3	1536.5	1546.8
7.5°	1468.9	1473.0	1480.2	1491.4	1505.8	1525.3	1551.9	1566.3	1575.5	1596.0	1613.4
10°	1492.5	1497.6	1511.9	1533.5	1555.0	1584.7	1618.5	1640.1	1646.2	1672.9	1705.7
12.5°	1515.0	1521.2	1544.7	1583.7	1622.6	1662.6	1702.6	1729.2	1731.3	1767.2	1804.1
15°	1550.9	1556.0	1587.8	1638.0	1697.5	1752.8	1802.0	1820.5	1828.7	1854.3	1900.4
17.5°	1629.8	1636.0	1677.0	1731.3	1793.8	1852.3	1901.5	1916.8	1916.8	1938.4	1976.3
20°	1714.9	1721.0	1775.4	1845.1	1920.9	1980.4	2018.3	2004.0	1998.8	2005.0	2031.6
22.5°	1810.2	1821.5	1873.8	1954.8	2048.0	2120.8	2140.3	2097.2	2082.9	2068.5	2074.7
25°	1932.2	1945.5	1996.8	2082.9	2174.1	2251.0	2262.3	2195.6	2187.4	2137.2	2118.8
27.5°	2072.6	2082.9	2146.4	2231.5	2316.6	2381.2	2393.5	2311.5	2283.8	2214.1	2171.0
30°	2254.1	2263.3	2318.6	2402.7	2476.5	2521.6	2537.0	2424.2	2402.7	2296.1	2229.5
32.5°	2451.9	2456.0	2512.4	2593.4	2659.0	2702.0	2680.5	2549.3	2517.5	2397.6	2306.3
35°	2678.4	2678.4	2751.2	2816.8	2869.1	2881.4	2840.4	2690.7	2653.8	2523.7	2409.9
37.5°	2900.9	2907.0	2974.7	3052.6	3098.7	3096.7	3021.8	2857.8	2815.8	2674.3	2548.3
40°	3141.8	3155.1	3222.7	3309.9	3353.9	3347.8	3233.0	3050.5	3007.5	2840.4	2717.4
42.5°	3363.2	3384.7	3463.6	3552.8	3601.0	3596.9	3476.9	3271.9	3229.9	3041.3	2918.3
45°	3539.5	3562.0	3660.4	3784.5	3861.3	3854.2	3733.2	3501.5	3450.3	3252.5	3117.2
47.5°	3694.3	3717.8	3827.5	3958.7	4080.7	4093.0	3982.3	3733.2	3678.9	3479.0	3326.3
50°	3813.2	3824.4	3947.4	4090.9	4232.4	4301.1	4204.7	3965.9	3900.3	3702.5	3530.2
52.5°	3803.9	3819.3	3971.0	4165.8	4355.4	4468.2	4401.5	4185.2	4121.7	3906.4	3738.3
55°	3616.3	3631.7	3812.1	4096.1	4424.1	4590.1	4583.0	4394.4	4348.2	4114.5	3954.6
57.5°	3342.7	3376.5	3555.9	3862.4	4333.9	4687.5	4716.2	4585.0	4536.8	4318.5	4168.8
60°	2852.7	2897.8	3104.9	3502.6	4044.8	4654.7	4858.7	4745.9	4716.2	4508.1	4362.6
62.5°	2072.6	2105.4	2381.2	2902.9	3616.3	4421.0	4978.6	4912.0	4889.5	4678.3	4537.9
65°	1241.3	1316.2	1537.6	2053.2	2917.3	3980.2	4913.0	5129.3	5105.7	4853.6	4687.5
67.5°	628.4	662.2	749.3	1113.2	1961.9	3293.5	4584.0	5264.6	5293.3	5003.2	4740.8
70°	389.5	398.7	423.3	549.4	979.9	2163.9	3748.6	4912.0	5052.4	4979.7	4602.4
72.5°	312.6	314.7	318.8	342.4	470.5	1011.7	2369.9	3847.0	4100.2	4650.6	4404.6
75°	259.3	260.4	261.4	268.6	293.2	413.1	1153.2	2643.6	2939.8	3952.6	4083.8
77.5°	208.1	203.0	207.1	210.1	216.3	230.6	397.7	1410.5	1710.8	2594.4	3158.2
80°	135.3	133.3	141.5	144.5	150.7	159.9	212.2	478.7	581.2	944.1	1004.5
82.5°	72.8	68.7	86.1	83.0	86.1	93.3	125.1	175.3	196.8	285.0	240.9
85°	22.6	22.6	23.6	27.7	33.8	32.8	54.3	86.1	95.3	122.0	90.2
87.5°	4.1	4.1	4.1	4.1	4.1	5.1	11.3	17.4	23.6	42.0	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4	1490.4
2.5°	1510.9	1501.7	1506.8	1509.9	1508.9	1506.8	1496.6	1494.5	1489.4	1481.2	1479.1
5°	1556.0	1545.8	1546.8	1543.7	1533.5	1520.1	1497.6	1486.3	1477.1	1466.8	1465.8
7.5°	1626.7	1615.5	1612.4	1598.0	1569.3	1538.6	1502.7	1482.2	1466.8	1453.5	1451.5
10°	1716.9	1705.7	1695.4	1661.6	1614.4	1573.4	1526.3	1496.6	1474.0	1457.6	1454.5
12.5°	1817.4	1808.2	1782.5	1733.3	1677.0	1628.8	1580.6	1543.7	1510.9	1486.3	1483.2
15°	1929.1	1908.6	1869.7	1806.1	1752.8	1713.9	1655.4	1605.2	1552.9	1520.1	1513.0
17.5°	2007.0	1989.6	1943.5	1882.0	1840.0	1806.1	1737.4	1665.7	1595.0	1546.8	1536.5
20°	2062.4	2043.9	1991.7	1946.6	1933.2	1904.5	1824.6	1741.5	1659.5	1600.1	1586.8
22.5°	2102.4	2082.9	2029.6	2007.0	2025.5	2020.4	1942.5	1848.2	1750.8	1680.0	1663.6
25°	2140.3	2121.8	2074.7	2082.9	2132.1	2147.5	2063.4	1953.7	1843.0	1760.0	1740.5
27.5°	2176.2	2152.6	2131.1	2176.2	2245.9	2274.6	2185.4	2061.4	1941.4	1856.4	1841.0
30°	2231.5	2203.8	2200.8	2266.4	2377.1	2401.7	2303.3	2179.2	2060.3	1974.2	1954.8
32.5°	2301.2	2275.6	2277.6	2376.0	2504.2	2524.7	2440.6	2324.8	2205.9	2119.8	2093.1
35°	2395.5	2363.7	2381.2	2502.1	2631.3	2669.2	2601.6	2505.2	2389.4	2301.2	2271.5
37.5°	2525.7	2479.6	2515.5	2642.6	2772.7	2829.1	2776.8	2705.1	2590.3	2501.1	2473.4
40°	2691.8	2653.8	2668.2	2808.6	2942.9	3010.5	2977.7	2907.0	2793.2	2700.0	2668.2
42.5°	2888.6	2850.6	2845.5	2995.2	3129.5	3232.0	3200.2	3135.6	3017.7	2911.1	2880.4
45°	3081.3	3046.4	3053.6	3206.3	3357.0	3468.7	3437.0	3361.1	3233.0	3110.0	3085.4
47.5°	3282.2	3253.5	3259.6	3421.6	3587.6	3699.4	3659.4	3567.1	3417.5	3286.3	3256.6
50°	3488.2	3455.4	3464.6	3634.8	3814.2	3919.8	3858.3	3721.9	3556.9	3428.8	3403.1
52.5°	3693.2	3654.3	3677.9	3838.8	4024.3	4108.4	3994.6	3829.6	3669.7	3542.5	3513.8
55°	3929.0	3888.0	3862.4	4034.6	4218.0	4252.9	4097.1	3904.4	3714.8	3570.2	3552.8
57.5°	4144.2	4109.4	4061.2	4233.4	4368.7	4343.1	4176.0	3883.9	3605.1	3419.5	3394.9
60°	4337.0	4307.2	4265.2	4411.8	4473.3	4415.9	4112.5	3640.9	3334.5	3140.7	3129.5
62.5°	4514.3	4482.5	4443.6	4568.6	4560.4	4427.2	3823.4	3267.8	2857.8	2649.7	2631.3
65°	4654.7	4626.0	4614.7	4713.1	4699.8	4206.8	3373.4	2656.9	2088.0	1853.3	1846.1
67.5°	4694.7	4683.4	4743.9	4911.0	4702.9	3764.0	2645.6	1762.0	1121.4	899.0	885.6
70°	4545.0	4544.0	4717.2	4956.1	4276.5	2875.2	1561.1	794.4	563.8	500.2	492.0
72.5°	4350.3	4347.2	4484.6	4275.5	3171.5	1573.4	657.1	425.4	352.6	335.2	335.2
75°	4030.5	4022.3	4125.8	3252.5	1783.6	592.5	348.5	292.1	276.8	273.7	273.7
77.5°	3285.3	3216.6	3053.6	2010.1	622.2	291.1	230.6	229.6	220.4	219.4	219.4
80°	1080.4	1080.4	1255.7	766.7	274.7	179.4	163.0	171.2	162.0	155.8	154.8
82.5°	176.3	242.9	345.4	219.4	148.6	111.7	100.5	106.6	111.7	89.2	89.2
85°	69.7	91.2	133.3	102.5	68.7	45.1	48.2	53.3	47.2	41.0	40.0
87.5°	26.7	32.8	47.2	24.6	14.4	8.2	5.1	5.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)